

an optical assembly operatively associated with the housing for focusing and dispersing the LED beam traveling through said optical assembly to a desired light contour; and

a fixing apparatus disposed on a surface of the housing for attaching the undercabinet lighting assembly to an associated structure.

Please cancel claim 2.

9. An undercabinet lighting assembly comprising:
a housing;
a first plurality of Light Emitting Diodes (LEDs) mounted within the housing forming at least one array of LEDs, the LEDs generating an LED beam and serving as a light source;
an optical assembly operatively associated with the housing for focusing and dispersing the LED beam traveling through said optical assembly to a desired light contour;
a fixing apparatus disposed on a surface of the housing for attaching the undercabinet lighting assembly to an associated structure; and
further comprising a battery pack having a battery source enclosed by the fixture housing for providing back up power and emergency lighting.

11. An undercabinet lighting assembly comprising:
a housing;
a first plurality of Light Emitting Diodes (LEDs) mounted within the housing forming at least one array of LEDs, the LEDs generating an LED beam and serving as a light source;
an optical assembly operatively associated with the housing for focusing and dispersing the LED beam traveling through said optical assembly to a desired light contour; and
a fixing apparatus disposed on a surface of the housing for attaching the undercabinet lighting assembly to an associated structure;

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wherein the optical assembly is continuous and encapsulates the LED array, and is selectively adjustable for focusing and dispersing the LED beam as desired.

12. An undercabinet lighting assembly comprising:
a housing;
a first plurality of Light Emitting Diodes (LEDs) mounted within the housing forming at least one array of LEDs, the LEDs generating an LED beam and serving as a light source;

an optical assembly operatively associated with the housing for focusing and dispersing the LED beam traveling through said optical assembly to a desired light contour;

a fixing apparatus disposed on a surface of the housing for attaching the undercabinet lighting assembly to an associated structure;

wherein the optical assembly encapsulates the LED array and is fixed and the array of LEDs serving as the light source is selectively moveable for focusing and dispersing the LED beam as desired.

13. An undercabinet lighting assembly comprising:
a housing;
a first plurality of Light Emitting Diodes (LEDs) mounted within the housing forming at least one array of LEDs, the LEDs generating an LED beam and serving as a light source;

an optical assembly operatively associated with the housing for focusing and dispersing the LED beam traveling through said optical assembly to a desired light contour;

a fixing apparatus disposed on a surface of the housing for attaching the undercabinet lighting assembly to an associated structure; and

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further comprising a second plurality of LEDs for providing lower levels of illumination, the second plurality of LEDs being separate and distinct from the first plurality of LEDs, the second plurality of LEDs adapted to automatically turn on upon primary power failure.

15. An undercabinet lighting assembly comprising:
a housing; and
a first plurality of Light Emitting Diodes (LEDs) mounted within the [fixture] housing forming at least one array of LEDs, the array of LEDs generating an LED beam and serving as a light source, said first plurality of [devices] LEDs being powered by an AC power source and a battery source upon failure of the AC power source including a switch having a variable resistor for controlling a level of optical output.

16. The undercabinet lighting assembly according to claim 15, further comprising a switch formed from a variable resistor for controlling a level of optical output.

17. The undercabinet lighting assembly according to claim 15, wherein the switch is adapted to selectively turn on and off any select number of LED's within the at least one array of LED's, thereby allowing a user to choose from several different levels of illumination.

18. The undercabinet lighting assembly according to claim 15, wherein the switch operates as a step level variable control having at least two distinct levels of illumination.

20. The undercabinet lighting assembly according to claim 15, wherein the switch operates as a rheostat having continuous variable control.

Please cancel claim 23.

25. The undercabinet lighting assembly according to claim 15, further comprising at least one continuous, encapsulating optical assembly operatively associated with the housing which is selectively adjustable for focusing and dispersing the LED beam.

Please cancel claim 29.